PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	is a solling with a
To: HAIN R. SWOPE GIBBONS, DEL DEO, DOLAN, GRIFFINGER & VECCHIONE ONE RIVERFRONT PLAZA NEWARK, NJ 07102	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION
A 31 day	(PCT Rule 44.1)
211 71305 Delan.	Date of Mailing (day/month/year) 11 MAR 2004
Applicant's or agent's file reference 10444-47681 104644 - 4768(FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US03/30869	International filing date (day/month/year) 30 September 2003 (30.09.2003)
Applicant SK ENERGY AND CHEMICAL INC,	
The applicant is hereby notified that the international search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	
	normally two months from the date of transmittal of the
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.	
For more detailed instructions, see the notes on the ac	
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	ch report will be established and that the declaration under
	ional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has bee applicant's request to forward the texts of both the p	en transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.
	plicant will be notified as soon as a decision is made.
applicant wishes to avoid or postpone publication, a notice of w	al application will be published by the International Bureau. If the withdrawal of the international application, or of the priority claim, .1 and 90 bis.3, respectively, before the completion of the technical
examination must be filed if the applicant wishes to postpone t date (in some Offices even later); otherwise the applicant must acts for entry into the national phase before those designated Offi	1
<u> </u>	hs (or later) will apply even if no demand is filed within 19 months. e applicable time limits, Office by Office, see the PCT Applicant's
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer Kamal Saeed, Ph.D., Telephone No. (571) 272-0705

Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 10444-47681	FOR FURTHER ACTION			
International application No. PCT/US03/30869	International filing date (day/mont 30 September 2003 (30.09.2003)	h/year)	(Earliest) Priority Date (day/month/year) 03 October 2002 (03.10.2002)	
Applicant SK ENERGY AND CHEMICAL INC,				
according to Article 18. A copy is bein This international search report consists	g transmitted to the International I	Bureau.	uthority and is transmitted to the applicant in this report.	
language in which it was filed	l, unless otherwise indicated under t	nis item.	basis of the international application in the	
Authority (Rule 23.1(b)).	e and/or amino acid sequence discl		international application furnished to this international application, the international	
	al application in written form.	•		
filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.				
furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the				
the statement that the subscinternational application as		listing does	s not go beyond the disclosure in the	
the statement that the infor been furnished.	mation recorded in computer readab	le form is	identical to the written sequence listing has	
2. Certain claims were foun	d unsearchable (See Box I).			
3. Unity of invention is lack	ing (See Box II).			
4. With regard to the title,				
the text is approved as sub				
the text has been established	ed by this Authority to read as follow	vs:		
5. With regard to the abstract,				
the text is approved as sub				
the text has been established within one month from the	ed, according to Rule 38.2(b), by the date of mailing of this international	is Authority search rep	y as it appears in Box III. The applicant may, port, submit comments to this Authority.	
6. The figure of the drawings to be p	ublished with the abstract is Figure	No		
as suggested by the application	ant.		None of the figures	
because the applicant faile	d to suggest a figure.			
because this figure better	characterizes the invention.			

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30869

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, STN CAS ONLINE
C. DOCUMENTS CONSIDERED TO BE RELEVANT
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No
A US 6,114,566 (HOLLINGSWORTH et al) 05 September 2000 (05.09.2000), entire document 1-17
Further documents are listed in the continuation of Box C. See patent family annex.
* Special categories of cited documents: "T" later document published after the international filing date or priori
*A" document defining the general state of the art which is not considered to be date and not in conflict with the application but cited to understand principle or theory underlying the invention
of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive st when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combinations which is a priority to a person citible in the priority of the p
"O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed
Date of the actual completion of the international search 29 February 2004 (29.02.2004) Date of mailing of the international search 2004
Name and mailing address of the ISA/US Authorized officer
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Authorized officer Kamal Saeed, Ph.D., Telephone No. (571) 272-0705

Form PCT/ISA/210 (second sheet) (July 1998)

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added." "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added, all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II